

January 6, 2003

Mr. Denny Criggar  
Director of Facilities Engineering  
Community Hospital East  
1500 North Ritter Avenue  
Indianapolis, Indiana 46219

Re: 097-16583-00229  
First Significant Permit Revision to  
FESOP 097-13830-00229

Dear Mr. Criggar:

Community Hospital East was issued a Federally Enforceable State Operating Permit (FESOP) on June 22, 2001. An application requesting a change to the FESOP was received by the City of Indianapolis Office of Environmental Services on September 12, 2002. Community Hospital East requested that Boiler #1 (Emission Unit ID B-1) and Boiler #2 (Emission Unit ID B-2) be replaced in the FESOP by one (1) new boiler, specifically, Boiler # 6 (Emission Unit ID B-6).

Pursuant to the provisions of 326 IAC 2-8-11.1 a significant permit revision to this permit is hereby approved as described in the attached Technical Support Document.

The following construction conditions are applicable to the proposed project:

1. General Construction Conditions  
The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).
2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
3. Effective Date of the Permit  
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.
4. Pursuant to 326 IAC 2-1.1-9 (Revocation), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.
5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

Pursuant to 326 IAC 2-8-11.1, this permit shall be revised by incorporating the significant permit revision into the permit. All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this modification and the following revised permit pages to the front of the original permit.

Office of Environmental Services (OES) has assigned the processing of this application to Eastern Research Group, Inc. (ERG). Therefore, questions should be directed to Mike Pring, ERG, 1600 Perimeter Park Drive, Morrisville, North Carolina 27560, or call (919)468-7840 to speak directly to Mr. Pring. Questions may also be directed to Monica Dick of my staff at (317) 327-2512.

Sincerely,

Original Signed by John B. Chavez  
John B. Chavez  
Administrator  
Office of Environmental Services

ERG/MP

cc: File  
Permits - Monica Dick  
Compliance - Matt Mosier  
IDEM - Mindy Hahn

# **FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)**

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY**

**AND**

**CITY OF INDIANAPOLIS  
OFFICE OF ENVIRONMENTAL SERVICES**

**Community Hospital East  
1500 North Ritter Avenue  
Indianapolis, Indiana 46219**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F097-13830-00229	
Issued by: Daniel B. Dovenbarger Administrator, ERMD City of Indianapolis	Issuance Date: June 22, 2001  Expiration Date: June 22, 2006

First Minor Permit Revision No.: F097-15007-00229 Issued February 8, 2002

First Significant Permit Revision No.: 097-16583-00229	Pages Affected: 3, 4, 5, 27, 28, 29, 30a, 30b, 30c, 30d, 35
Issued by: Original Signed by John B. Chavez  John B. Chavez, Administrator, Office of Environmental Services	Issuance Date: January 6, 2003

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C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]

C.15 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5]

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test

**Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]**

C.17 Emission Statement [326 IAC 2-6] [326 IAC 2-8-4(3)]

C.18 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

C.19 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

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C.20 Compliance with 40 CFR 82 and 326 IAC 22-1

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D.1.3 Fuel Use Limitation [326 IAC 2-8-4]

**Compliance Determination Requirements**

D.1.4 Testing Requirement [326 IAC 326 IAC 2-8-5(a)(1),(4)] [326 IAC 2-1.1-11]

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## SECTION A

## SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) and the Office of Environmental Services (OES). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-8-3(b)]

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The Permittee owns and operates a stationary general medical and surgical hospital.

Authorized individual:	Mr. Denny Criggar
Source Address:	1500 North Ritter Avenue, Indianapolis, Indiana 46219
Mailing Address:	1500 North Ritter Avenue, Indianapolis, Indiana 46219
SIC Code:	8062
Source Location Status:	Marion County
County Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source under PSD or Emission Offset rules Minor Source, Section 112 of the Clean Air Act

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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This stationary source consists of the following emission units and pollution control devices:

- (a) One (1) Vogt Boiler, model number VV175, installed in 1956, identified as emission unit B-2, with a maximum capacity of 29 MMBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to stack S-1.
- (b) One (1) Caterpillar Generator, model number 3516, installed on January 1, 1999, identified as emission unit G-1, with a maximum capacity of 2168 hp, using no controls, combusting No. 2 distillate oil, and exhausting to outside of the building.
- (c) One (1) Cleaver Brooks Boiler, model number CB200-800, identified as emission unit ID B-4, with a maximum heat input capacity of 32.7 mmBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to stack S-2. Installed in 2001.
- (d) One (1) Cleaver Brooks Boiler, model number CB200-600, identified as emission unit ID B-5, with a maximum heat input capacity of 24.5 mmBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to stack S-2. Installed in 2001.
- (e) One (1) Cleaver Brooks Boiler, model number CB200-500, identified as emission unit B-6, with a maximum heat input capacity of 20.4 mmBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to Stack S-1. To be installed in 2002.

### A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

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- (a) Combustion source flame safety purging on startup.
- (b) Vessels storing lubricating oils, hydraulic oils, and machining fluids.
- (c) Refractory storage not requiring air pollution control equipment.
- (d) Filling drums, pails, or other packaging containers with lubricating oils, waxes, and

## SECTION D.1

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-8-4(10)]

- (a) One (1) Vogt Boiler, model number VV175, installed in 1956, identified as emission unit B-2, with a maximum capacity of 29 MMBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to stack S-1.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-8-4(1)]

#### D.1.1 Particulate Matter (PM)[326 IAC 6-2-2]

Pursuant to 326 IAC 6-2-2 (Particulate Matter Emission Limitations for Sources of Indirect Heating, the PM emissions for boiler No. 2 shall be limited to 0.403 pounds per million BTU heat input.

These limitations are based on the following equation:

$$Pt = \frac{0.87}{Q^{0.16}}$$

where:

Pt = emission rate limit (lbs/MMBtu)

Q = total source heat input capacity (MMBtu/hr)

Q used is 123 mmBtu/hr.

#### D.1.2 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1-1][326 IAC 7-2-1]

Pursuant to 326 IAC 7-1.1 (SO<sub>2</sub> Emissions Limitations), the SO<sub>2</sub> emissions from each boiler shall not exceed five-tenths (0.5) pound per million Btu heat input while combusting fuel oil. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a thirty (30) day rolling weighted average. 326 IAC 7-1.1 and 326 IAC 7-2-1 are not federally enforceable.

#### D.1.3 Fuel Use Limitation [326 IAC 2-8-4]

The total No. 2 oil combusted in all boilers (B-2, B-4, B-5, and B-6) shall be limited 2514.9 kilogallons or 2,514,900 gallons per twelve (12) consecutive month period with compliance determined at the end of each month. This usage limit is equivalent to a potential to emit SO<sub>2</sub> of 89.3 tons per year. Compliance with this fuel usage limitation makes 326 IAC 2-7 (Part 70 Permit Program) not applicable.

### Compliance Determination Requirements

#### D.1.4 Testing Requirements [326 IAC 326 IAC 2-8-5(a)(1),(4)][326 IAC 2-1.1-11]

Testing of this facility is not specifically required by this permit. However, if testing is required, compliance with the sulfur dioxide limit specified in Condition D.1.2 or PM limit specified in Condition D.1.1 shall be determined by a performance test conducted in accordance with Section C.8 - Performance Testing.

#### D.1.5 Sulfur Dioxide Emissions and Sulfur Content

Compliance with Condition D.1.2 shall be determined utilizing one of the following options:

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pound per million Btu heat input by:

- (1) Providing vendor analysis of fuel delivered, if accompanied by a certification; or,
- (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
  - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
  - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the boiler using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

#### **Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

##### **D.1.6 Visible Emissions Notations [326 IAC 5-1-2(2)]**

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- (a) Visible emission notations of the boilers' stack exhaust shall be performed once per shift during normal daylight operations while combusting fuel oil. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

#### **Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

##### **D.1.7 Record Keeping Requirements**

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- (a) To document compliance with Condition D.1.2, D.1.3 and D.1.5, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly and shall be complete and sufficient to establish compliance with the SO<sub>2</sub> emission limit established in Condition D.1.2.
  - (1) Calendar dates covered in the compliance determination period;
  - (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;
  - (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period, the natural gas fired boiler certification requires certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1); and



If the fuel supplier certification is used to demonstrate compliance the following, as a minimum, shall be maintained:

- (4) Fuel supplier certifications;
  - (5) The name of the fuel supplier; and
  - (6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.
- (b) To document compliance with Condition D.1.6, the Permittee shall maintain records of visible emission notations of the boiler stack S-1 exhaust while combusting fuel oil.
  - (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.1.8 Reporting Requirements

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- (a) A quarterly summary of the information to document compliance with Condition D.1.4 and D.1.5 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee requires the certification by the "authorized individual" as defined by 326 IAC 2-1-1(1).
- (b) The Permittee shall certify, on the form provided, that natural gas was fired in the boiler at all times during each quarter. Alternatively, the Permittee shall report the number of days during which an alternate fuel was burned during each quarter.

## SECTION D.3

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-8-4(10)]

- (c) One (1) Cleaver Brooks Boiler, model number CB200-800, identified as emission unit ID B-4, with a maximum heat input capacity of 32.7 mmBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to stack S-2. Installed in 2001.
- (d) One (1) Cleaver Brooks Boiler, model number CB200-600, identified as emission unit ID B-5, with a maximum heat input capacity of 24.5 mmBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to stack S-2. Installed in 2001.
- (e) One (1) Cleaver Brooks Boiler, model number CB200-500, identified as emission unit B-6, with a maximum heat input capacity of 20.4 mmBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to Stack S-1. To be installed in 2002.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-8-4(1)]

#### D.3.1 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to Emission Unit ID B-4, B-5, and B-6 as described in this section except when otherwise specified in 40 CFR Part 60, Subpart Dc.

#### D.3.2 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1-2(a)(3)][40 CFR 60, Subpart Dc][326 IAC 12-1]

- (a) Pursuant to 326 IAC 7-1.1-2(a)(3) (SO<sub>2</sub> Emissions Limitations) and 40 CFR 60, Subpart Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units):
  - (1) The SO<sub>2</sub> emissions from Boilers # 4, # 5, and # 6, identified as Emission Unit ID B-4, B-5, and B-6, each shall not exceed five tenths (0.5) pounds per million Btu heat input; or
  - (2) The sulfur content of the fuel oil shall not exceed five-tenths percent (0.5%) by weight. [40 CFR 60.42c(d)]
  - (3) Pursuant to 40 CFR 60 Subpart Dc, the fuel oil sulfur content limit applies at all times, including periods of startup, shutdown, and malfunction.
- (b) Pursuant to 326 IAC 7-1.1 (SO<sub>2</sub> Emissions Limitations) the SO<sub>2</sub> emissions from Boilers # 4, # 5, and # 6, identified as Emission Unit ID B-4, B-5, and B-6, shall each not exceed five tenths (0.5) pounds per MMBtu heat input when combusting distillate oil.

#### D.3.3 Particulate Matter [326 IAC 6-2-4]

- (a) Pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the Particulate Matter (PM) emissions from Boiler # 4 and Boiler # 5, identified as Emission Unit ID B-4 and B-5, each shall be limited to 0.3 pounds per million BTU heat input.

These limitations are based on the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

where:

Pt = emission rate limit (lbs/MMBtu)

Q = total source heat input capacity (mmBtu/hr)

Q used is 115 mmBtu/hr.

- (b) Pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the Particulate Matter (PM) emissions from Boiler # 6, identified as Emission Unit ID B-6, shall be limited to 0.32 pounds per million BTU heat input.

This limitation is based on the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

where:

Pt = emission rate limit (lbs/MMBtu)

Q = total source heat input capacity (mmBtu/hr)

Q used is 106.6 mmBtu/hr.

#### D.3.4 Opacity [40 CFR 60, Subpart Dc][326 IAC 12-1]

Pursuant to 40 CFR 60.43c(c) (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units) and 326 IAC 12-1 (New Source Performance Standards), opacity from Boiler # 4, identified as Emission Unit ID B-4, when firing distillate oil shall not exceed:

- (a) Twenty percent (20%) opacity (six minute average), except for one six (6) minute period per hour of not more than twenty seven percent (27%) opacity; and
- (b) The opacity standard shall apply at all times, except during periods of startup, shutdown or malfunction.

#### D.3.5 Fuel Use Limitation [326 IAC 2-8-4]

The total No. 2 oil combusted in all boilers (B-2, B-4, B-5, and B-6) shall be limited to 2514.9 kilogallons or 2,514,900 gallons per twelve (12) consecutive month period with compliance determined at the end of each month. This usage limit is equivalent to a potential to emit SO<sub>2</sub> of 89.3 tons per year. Compliance with this fuel usage limitation makes 326 IAC 2-7 (Part 70 Permit Program) not applicable.

#### D.3.6 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for Boilers # 4, # 5, and # 6, identified as Emission Unit ID B-4, B-5, and B-6.

### **Compliance Determination Requirements**

#### D.3.7 Testing Requirements [326 IAC 2-8-5(a)(1),(4)][326 IAC 2-1.1-11]

The Permittee is not required to test Boilers # 4, # 5, and # 6, identified as Emission Unit ID B-4, B-5, and B-6 by this permit. However, IDEM and OES may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM and OES, compliance with the Particulate Matter limit specified in Condition D.3.3 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

#### D.3.8 Sulfur Dioxide Emissions and Sulfur Content

Pursuant to 40 CFR 60, Subpart Dc, the Permittee shall demonstrate compliance with Condition D.3.2, utilizing one of the following options:

- (a) Providing vendor analysis of fuel delivered, if accompanied by a certification; or
- (b) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
  - (1) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
  - (2) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.

#### **Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

##### D.3.9 Visible Emissions Notations

- (a) Visible emission notations of Boilers # 4, # 5, and # 6, identified as Emission Unit ID B-4, B-5, and B-6, stack exhaust shall be performed once per shift during normal daylight operations when firing distillate oil. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for these units shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

#### **Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

##### D.3.10 Record Keeping Requirements

- (a) To document compliance with Condition D.3.2, the Permittee shall maintain records in accordance with (1) through (6) below. Pursuant to 40 CFR 60 Subpart Dc, the fuel oil sulfur limit applies at all times including periods of startup, shutdown, and malfunction.
  - (1) Calendar dates covered in the compliance determination period;
  - (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;
  - (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and,if the fuel supplier certification is used to demonstrate compliance, the following, as a minimum, shall be maintained:
  - (4) Fuel supplier certifications.

- (5) The name of the fuel supplier; and
- (6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report.

- (b) To document compliance with Condition D.3.9, the Permittee shall maintain records of visible emission notations of the Boilers # 4, # 5, and # 6, identified as Emission Unit ID B-4, B-5, and B-6 stack exhaust when firing distillate oil.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.
- (d) When using natural gas, a record shall be maintained of the amount of fuel combusted each month. These records shall be retained for a period of two years following the date of such record.

#### D.3.11 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.3.5 shall be submitted to the address(es) listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the semiannual reporting period.

- (a) Pursuant to 40 CFR 60, §60.7, the owner of this source shall furnish the EPA, IDEM and OES the following written notifications:
  - (1) Of the date construction is commenced for each Boilers # 4, # 5, and # 6, identified as Emission Unit ID B-4, B-5, and B-6, postmarked no later than 30 days after such date.
  - (2) Of the anticipated date of initial startup of each boiler postmarked no more than 60 days nor less than 30 days prior to such date.
  - (3) Of the actual date of initial startup date of each boiler postmarked within 15 days after such date.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION  
AND  
CITY OF INDIANAPOLIS OFFICE of ENVIRONMENTAL SERVICES**

**FESOP Quarterly Report**

Source Name: Community Hospital  
Source Address: 1500 North Ritter Avenue, Indianapolis, IN. 46219  
Mailing Address: 1500 North Ritter Avenue, Indianapolis, IN. 46219  
FESOP No.: F097-13830-00229  
Facility: All Boilers (B-2, B-4, B-5, and B-6)  
Parameter: No. 2 Fuel Usage  
Limit: 2,514,900 gallons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER: \_\_\_\_\_ YEAR: \_\_\_\_\_

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**Indiana Department of Environmental Management  
Office of Air Quality  
and  
City of Indianapolis  
Office of Environmental Services**

**Technical Support Document (TSD) for a Significant Permit Revision  
to a Federally Enforceable State Operating Permit**

**Source Background and Description**

Source Name:	Community Hospital East
Source Location:	1500 North Ritter Avenue, Indianapolis, Indiana 46219
County:	Marion
SIC Code:	8062
Operation Permit No.:	F097-13830-00229
Operation Permit Issuance Date:	June 22, 2001
Permit Revision No.:	097-16583-00229
Permit Reviewer:	ERG/MP

The City of Indianapolis Office of Environmental Services (OES) and the Office of Air Quality (OAQ) have reviewed a revision application from Community Hospital East relating to the construction and operation of a new boiler Emission Unit ID B-6, (which will be replacing existing boilers B-1 and B-2), as follows:

- (e) One (1) Cleaver Brooks Boiler, model number CB200-500, identified as emission unit B-6, with a maximum heat input capacity of 20.4 mmBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to Stack S-1. To be installed in 2002.

**History**

On September 12, 2002, Community Hospital East submitted an application to OES and OAQ requesting to add a new boiler (B-6) to their existing plant. Community Hospital East was issued a FESOP on June 22, 2001.

**Existing Approvals**

The source was issued a FESOP (F097-13830-00229) on June 22, 2001. The source has since received the following:

- (a) First Minor Permit Revision No.: 097-15007-00229, issued on February 8, 2002.

**Enforcement Issue**

There are no enforcement actions pending.

### Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
S-2	Boiler #6 (B-6)	90	3.25	27,000	350

### Recommendation

The staff recommends to the Commissioner that the Significant Permit Revision be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on September 12, 2002.

### Emission Calculations

See Appendix A of this document for detailed emissions calculations (Appendix A, pages 1 through 3).

### Potential To Emit of the Modification

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA.”

Pollutant	Potential To Emit (tons/year)
PM	1.3
PM-10	1.3
SO <sub>2</sub>	45.3
VOC	0.2
CO	3.2
NO <sub>x</sub>	12.8

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAP's	Potential To Emit (tons/year)
TOTAL	less than 0.1

- (a) Fugitive Emissions  
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.



## Justification for Modification

This FESOP is being modified through a FESOP Significant Permit Modification. This modification is being performed pursuant to 326 IAC 2-8-11.1(f) as the potential to emit of SO<sub>2</sub> from the modification is greater than twenty-five (25) tons per year.

## Potential to Emit

The table below summarizes the total potential to emit, reflecting all limits, of the significant emission units.

	Limited Potential to Emit (tons/year)						
Process/facility	PM	PM-10	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	HAPs
Boiler B-2	1.0	1.0	89.3*	0.7	10.7	12.7	0.2
Boiler B-4	2.0	2.0		0.8	12.0	20.5	0.2
Boiler B-5	1.5	1.5		0.6	9.0	15.3	0.2
Boiler B-6	1.3	1.3		0.2	3.2	12.8	<0.1
All Generators	0.1	-	9.7	0.8	15.6	28.8	-
Insignificant Activities	0.0	0.0	0.0	0.0	0.0	0.0	<2.5
Total Emissions	5.9	5.9	<100	3.1	50.5	90.1	<3.3

\* Potential to emit SO<sub>2</sub> for all four boilers is limited by restricting the No. 2 oil usage of all boilers combined to 2514.9 kilogallons (2,514,900 gallons) per year in order to keep boilers' potential SO<sub>2</sub> emissions limited to 89.3 tons per year.

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) from the entire source of SO<sub>2</sub> is equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) The source has agreed to limit SO<sub>2</sub> emissions to below 100 tons per year by limiting No. 2 fuel usage to 2,514,900 gallons per year, and diesel fuel usage to 123,600 gallons per year. Therefore, rule 326 IAC 2-8 will apply.

## County Attainment Status

The source is located in Marion County.

Pollutant	Status
PM-10	unclassifiable
SO <sub>2</sub>	maintenance attainment
NO <sub>2</sub>	attainment
Ozone	maintenance attainment
CO	attainment
Lead	unclassifiable

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Marion County has been designated as attainment or unclassifiable for ozone.

### Federal Rule Applicability

- (a) Boiler # 6 (Emission Unit ID B-6) is subject to the New Source Performance Standard, 326 IAC 12 and 40 CFR 60. 40c (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units) because it exceeds 10.0 MMBtu/hr maximum heat input and was manufactured after June 1989.

The NSPS limits SO<sub>2</sub> emissions to no greater than 0.5 lbs SO<sub>2</sub>/MMBtu heat input when combusting distillate fuel oil and limits stack opacity to no greater than 20% opacity as a particulate matter (PM) standard when firing distillate oil. The NSPS also requires initial notification of NSPS applicability per affected unit and record keeping and reporting requirements for daily amounts of fuel(s) combusted and fuel sulfur content for fuel oil(s) combusted. No emission or opacity standard exists when combusting natural gas.

- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.

### State Rule Applicability - Individual Facilities

#### 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating)

This regulation applies to Boiler #6 since it is an indirect heater, was installed after September 21, 1983, and is located in Marion County, and 326 IAC 6-1-2 and 326 IAC 6-1-12 limitations do not apply. Pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the Particulate Matter (PM) emissions from Boiler #6, identified as Emission Unit ID B-6, shall be limited to 0.32 pounds per million BTU heat input.

This limitation is based on the following equation:

$$P_t = \frac{1.09}{Q^{0.26}}$$

where:

P<sub>t</sub> = emission rate limit (lbs/MMBtu)

Q = total source heat input capacity (mmBtu/hr)

Q used is 106.6 mmBtu/hr (Boiler #2 Q = 29 MMBtu/hr, Boiler # 4 Q = 32.7 MMBtu/hr, Boiler # 5 Q = 24.5 MMBtu/hr, and Boiler #6 Q = 20.4 mmBtu/hr).

The existing limits for Boilers #2, #4, and #5 are not affected by this modification.

#### 326 IAC 12 (New Source Performance Standards) and 326 IAC 7-1.1-2(a)(3) (Sulfur Dioxide Rules)

326 IAC 12 adopts by reference 40 CFR 60 which includes 40 CFR 60.40c (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units). 40 CFR 60.40c applies to the addition of Boiler # 6 because it exceeds 10 MMBtu/hr maximum heat input and was manufactured after June 1989. As a result, it is subject to 40 CFR 60.40c which requires initial written notification of installation dates pursuant to 40 CFR 60 Subpart A, limits PM to 20% opacity when firing distillate oil, and limits SO<sub>2</sub> emissions when firing distillate oil to no greater than 0.5 pounds per million Btu of heat input, which is identical to the SO<sub>2</sub> emission limit as stated in 326 IAC 7-1.1-2(a)(3). As a result, Boiler # 6 is limited to:

- (a) Pursuant to 326 IAC 7-1.1-2(a)(3) (SO<sub>2</sub> Emissions Limitations) and 40 CFR 60, Subpart Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units):

- (1) The SO<sub>2</sub> emissions from Boiler # 6, identified as Emission Unit ID B-6, shall not exceed five tenths (0.5) pounds per million Btu heat input; or
  - (2) The sulfur content of the fuel oil shall not exceed five-tenths percent (0.5%) by weight. [40 CFR 60.42c(d)]
  - (3) Pursuant to 40 CFR 60 Subpart Dc, the fuel oil sulfur content limit applies at all times, including periods of startup, shutdown, and malfunction.
- (b) Pursuant to 326 IAC 7-1.1 (SO<sub>2</sub> Emissions Limitations) the SO<sub>2</sub> emissions from Boiler # 6, identified as Emission Unit ID B-6, shall each not exceed five tenths (0.5) pounds per MMBtu heat input when combusting distillate oil.

The source shall determine compliance by the following method(s):

Pursuant to 40 CFR 60, Subpart Dc, the Permittee shall demonstrate compliance utilizing one of the following options:

- (a) Providing vendor analysis of fuel delivered, if accompanied by a certification; or
- (b) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
  - (1) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
  - (2) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.

## Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

1. Emission Unit ID B-6 has applicable compliance monitoring conditions as specified below:
  - (a) Visible emission notations of Boiler # 6, identified as Emission Unit ID B-6, stack exhaust shall be performed once per shift during normal daylight operations

when firing distillate oil. A trained employee shall record whether emissions are normal or abnormal.

- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

### Proposed Changes

#### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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This stationary source consists of the following emission units and pollution control devices:

- ~~(a) One (1) Vogt Boiler, model number VV175, installed in 1956, identified as emission unit B-1, with a maximum capacity of 29 mmBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to stack S-1.~~
- (ba) One (1) Vogt Boiler, model number VV175, installed in 1956, identified as emission unit B-2, with a maximum capacity of 29 MMBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to stack S-1.
- (eb) One (1) Caterpillar Generator, model number 3516, installed on January 1, 1999, identified as emission unit G-1, with a maximum capacity of 2168 hp, using no controls, combusting No. 2 distillate oil, and exhausting to outside of the building.
- (dc) One (1) Cleaver Brooks Boiler, model number CB200-800, identified as emission unit ID B-4, with a maximum heat input capacity of 32.7 MMBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to stack S-2. Installed in 2001.
- (ed) One (1) Cleaver Brooks Boiler, model number CB200-600, identified as emission unit ID B-5, with a maximum heat input capacity of 24.5 MMBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to stack S-2. Installed in 2001.
- (e) **One (1) Cleaver Brooks Boiler, model number CB200-500, identified as emission unit B-6, with a maximum heat input capacity of 20.4 mmBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to Stack S-1. To be installed in 2002.**

## SECTION D.1

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-8-4(10)]

- (a) ~~One (1) Vogt Boiler, model number VV175, installed in 1956, identified as emission unit B-1, with a maximum capacity of 29 mmBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to stack S-1.~~
- (ba) One (1) Vogt Boiler, model number VV175, installed in 1956, identified as emission unit B-2, with a maximum capacity of 29 MMBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to stack S-1.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-8-4(1)]

#### D.1.1 Particulate Matter (PM)[326 IAC 6-2-2]

Pursuant to 326 IAC 6-2-2 (Particulate Matter Emission Limitations for Sources of Indirect Heating, the PM emissions for boilers No. ~~1~~ and 2 shall be limited to 0.403 pounds per million BTU heat input.

These limitations are based on the following equation:

$$P_t = \frac{0.87}{Q^{0.16}}$$

where:

Pt = emission rate limit (lbs/MMBtu)

Q = total source heat input capacity (MMBtu/hr)

Q used is 123 mmBtu/hr.

#### D.1.3 Fuel Use Limitation [326 IAC 2-8-4]

The total No. 2 oil combusted in all boilers (B-1, B-2, B-4, ~~and B-5~~, **and B-6**) shall be limited 2514.9 kilogallons or 2,514,900 gallons per ~~rolling~~ twelve (12) consecutive month period **with compliance determined at the end of each month**. This usage limit is equivalent to a potential to emit SO<sub>2</sub> of 89.3 tons per year. Compliance with this fuel usage limitation makes 326 IAC 2-7 (Part 70 Permit Program) not applicable.

### SECTION D.3

### FACILITY OPERATION CONDITIONS

#### Facility Description [326 IAC 2-8-4(10)]

- (dc) One (1) Cleaver Brooks Boiler, model number CB200-800, identified as emission unit ID B-4, with a maximum heat input capacity of 32.7 mmBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to stack S-2. Installed in 2001.
- (ed) One (1) Cleaver Brooks Boiler, model number CB200-600, identified as emission unit ID B-5, with a maximum heat input capacity of 24.5 mmBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to stack S-2. Installed in 2001.
- (e) **One (1) Cleaver Brooks Boiler, model number CB200-500, identified as emission unit B-6, with a maximum heat input capacity of 20.4 mmBtu/hr, using no controls, combusting either natural gas or No. 2 distillate oil and exhausting to Stack S-1. To be installed in 2002.**

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

#### Emission Limitations and Standards [326 IAC 2-8-4(1)]

##### D.3.1 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to Emission Unit ID B-4, ~~and B-5,~~ **and B-6** as described in this section except when otherwise specified in 40 CFR Part 60, Subpart Dc.

##### D.3.2 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1-2(a)(3)][40 CFR 60, Subpart Dc][326 IAC 12-1]

- (a) Pursuant to 326 IAC 7-1.1-2(a)(3) (SO<sub>2</sub> Emissions Limitations) and 40 CFR 60, Subpart Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units):
  - (1) The SO<sub>2</sub> emissions from Boilers ~~#4, and Boiler, #5, and #6,~~ identified as Emission Unit ID B-4,~~and B-5,~~ **and B-6**, each shall not exceed five tenths (0.5) pounds per million Btu heat input; or
  - (2) The sulfur content of the fuel oil shall not exceed five-tenths percent (0.5%) by weight. [40 CFR 60.42c(d)]
  - (3) Pursuant to 40 CFR 60 Subpart Dc, the fuel oil sulfur content limit applies at all times, including periods of startup, shutdown, and malfunction.
- (b) Pursuant to 326 IAC 7-1.1 (SO<sub>2</sub> Emissions Limitations) the SO<sub>2</sub> emissions from Boilers ~~# 4, and Boiler, # 5, and # 6,~~ identified as Emission Unit ID B-4,~~and B-5,~~ **and B-6**, shall each not exceed five tenths (0.5) pounds per MMBtu heat input when combusting distillate oil.

##### D.3.3 Particulate Matter [326 IAC 6-2-4]

- (a) Pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the Particulate Matter (PM) emissions from Boiler # 4, and Boiler # 5, identified as Emission Unit ID B-4, and B-5, each shall be limited to 0.3 pounds per million BTU heat input.

These limitations are based on the following equation:

$$P_t = \underline{1.09}$$

$$Q^{0.26}$$

where:

Pt = emission rate limit (lbs/MMBtu)

Q = total source heat input capacity (mmBtu/hr)

Q used is 115 mmBtu/hr.

- (b) Pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the Particulate Matter (PM) emissions from Boiler # 6, identified as Emission Unit ID B-6, shall be limited to 0.32 pounds per million BTU heat input.

This limitation is based on the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

where:

Pt = emission rate limit (lbs/MMBtu)

Q = total source heat input capacity (mmBtu/hr)

Q used is 106.6 mmBtu/hr.

#### D.3.4 Opacity [40 CFR 60, Subpart Dc][326 IAC 12-1]

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Pursuant to 40 CFR 60.43c(c) (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units) and 326 IAC 12-1 (New Source Performance Standards), opacity from Boiler # 4, identified as Emission Unit ID B-4, when firing distillate oil shall not exceed:

- (a) Twenty percent (20%) opacity (six minute average), except for one six (6) minute period per hour of not more than twenty seven percent (27%) opacity; and
- (b) The opacity standard shall apply at all times, except during periods of startup, shutdown or malfunction.

#### D.3.5 Fuel Use Limitation [326 IAC 2-8-4]

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The total No. 2 oil combusted in all boilers (B-1, B-2, B-4, ~~and B-5, and B-6~~) shall be limited to 2514.9 kilogallons or 2,514,900 gallons per rolling twelve (12) consecutive month period **with compliance determined at the end of each month**. This usage limit is equivalent to a potential to emit SO<sub>2</sub> of 89.3 tons per year. Compliance with this fuel usage limitation makes 326 IAC 2-7 (Part 70 Permit Program) not applicable.

#### D.3.6 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for Boilers # 4, ~~and Boiler, # 5, and # 6~~, identified as Emission Unit ID B-4,~~and B-5, and B-6~~.

### Compliance Determination Requirements

#### D.3.7 Testing Requirements [326 IAC 2-8-5(a)(1),(4)][326 IAC 2-1.1-11]

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The Permittee is not required to test Boilers # 4, ~~and Boiler, # 5, and # 6~~, identified as Emission Unit ID B-4,~~and B-5, and B-6~~ by this permit. However, IDEM and OES may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM and OES, compliance with the Particulate Matter limit specified in Condition D.3.3 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

#### D.3.8 Sulfur Dioxide Emissions and Sulfur Content

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Pursuant to 40 CFR 60, Subpart Dc, the Permittee shall demonstrate compliance with Condition D.3.2, utilizing one of the following options:

- (a) Providing vendor analysis of fuel delivered, if accompanied by a certification; or
- (b) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
  - (1) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
  - (2) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.

#### **Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

#### D.3.9 Visible Emissions Notations

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- (a) Visible emission notations of Boilers # 4, ~~and Boiler, # 5, and # 6~~, identified as Emission Unit ID B-4, ~~and B-5, and B-6~~, stack exhaust shall be performed once per shift during normal daylight operations when firing distillate oil. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for these units shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

#### **Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

#### D.3.10 Record Keeping Requirements

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- (a) To document compliance with Condition D.3.2, the Permittee shall maintain records in accordance with (1) through (6) below. Pursuant to 40 CFR 60 Subpart Dc, the fuel oil sulfur limit applies at all times including periods of startup, shutdown, and malfunction.
    - (1) Calendar dates covered in the compliance determination period;
    - (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;
    - (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and,
- if the fuel supplier certification is used to demonstrate compliance, the following, as a minimum, shall be maintained:
- (4) Fuel supplier certifications.



- (5) The name of the fuel supplier; and
- (6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report.

- (b) To document compliance with Condition D.3.9, the Permittee shall maintain records of visible emission notations of the Boilers # 4, ~~and Boiler, # 5, and # 6~~, identified as Emission Unit ID B-4,~~and B-5, and B-6~~ stack exhaust when firing distillate oil.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.
- (d) When using natural gas, a record shall be maintained of the amount of fuel combusted each month. These records shall be retained for a period of two years following the date of such record.

#### D.3.11 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.3.5 shall be submitted to the address(es) listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the semiannual reporting period.

- (a) Pursuant to 40 CFR 60, §60.7, the owner of this source shall furnish the EPA, IDEM and OES the following written notifications:
  - (1) Of the date construction is commenced for each Boilers # 4, ~~and Boiler, # 5, and # 6~~, identified as Emission Unit ID B-4,~~and B-5, and B-6~~, postmarked no later than 30 days after such date.
  - (2) Of the anticipated date of initial startup of each boiler postmarked no more than 60 days nor less than 30 days prior to such date.
  - (3) Of the actual date of initial startup date of each boiler postmarked within 15 days after such date.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION  
AND  
CITY OF INDIANAPOLIS OFFICE of ENVIRONMENTAL SERVICES**

**FESOP Quarterly Report**

Source Name: Community Hospital  
Source Address: 1500 North Ritter Avenue, Indianapolis, IN. 46219  
Mailing Address: 1500 North Ritter Avenue, Indianapolis, IN. 46219  
FESOP No.: F097-13830-00229  
Facility: All Boilers (B-1, B-2, B-4, and B-5, and B-6)  
Parameter: No. 2 Fuel Usage  
Limit: 2,514,900 gallons per rolling twelve (12) consecutive month period **with compliance determined at the end of each month**

QUARTER: \_\_\_\_\_ YEAR: \_\_\_\_\_

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**Conclusion**

This permit revision shall be subject to the conditions of the attached proposed First Significant FESOP Permit Revision No. 097-16583-00229.

**Appendix A: Emission Calculations**  
**Commercial/Institutional/Residential Combustors (< 100 MMBtu/hr)**  
**#1 and #2 Fuel Oil**

**Company Name:** Community Hospital East  
**Address City IN Zip:** 1500 North Ritter Avenue  
**CP:** 097-16583-00229  
**Pit ID:** 097-00229  
**Reviewer:** ERG/MP  
**Date:** 10/14/2002

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur
20.4	1276.5	0.5

Emission Factor in lb/kgal	Pollutant				
	PM*	SO2	NO <sub>x</sub>	VOC	CO
	2.0	71 (142.0 S)	20.0	0.34	5.0
Potential Emission in tons/yr	1.3	45.3	12.8	0.2	3.2

\*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.

**Methodology**

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal/1,000 gal x 1 gal/0.140 MMBtu

Emission Factors are from AP-42, Tables 1.3-1, 1.3-2, and 1.3-3 ( SCC 1-03-005-01/02/03) Supplement E 9/98 (see errata file)

Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

See page 2 for HAPs emissions calculations.

**Appendix A: Emission Calculations**  
**Commercial/Institutional/Residential Combustors (< 100 MMBtu/hr)**  
**#1 and #2 Fuel Oil**  
**HAPs Emissions**

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**Company Name:** Community Hospital East  
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**CP:** 097-16583-00229  
**Pit ID:** 097-00229  
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**Date:** 10/14/2002

HAPs - Metals

Emission Factor in lb/MMBtu	Arsenic 4.0E-06	Beryllium 3.0E-06	Cadmium 3.0E-06	Chromium 3.0E-06	Lead 9.0E-06
Potential Emission in tons/yr	3.57E-04	2.68E-04	2.68E-04	2.68E-04	8.04E-04

HAPs - Metals (continued)

Emission Factor in lb/MMBtu	Mercury 3.0E-06	Mangamese 6.0E-06	Nickel 3.0E-06	Selenium 1.5E-05
Potential Emission in tons/yr	2.68E-04	5.36E-04	2.68E-04	1.34E-03

Methodology

No data was available in AP-42 for organic HAPs.

Potential Emissions (tons/year) = Throughput (MMBtu/hr)\*Emission Factor (lb/MMBtu)\*8,760hrs/yr / 2,000lb/ton

**Appendix A: Emission Calculations**  
**Commercial/Institutional/Residential Combustors (< 100 MMBtu/hr)**  
**#1 and #2 Fuel Oil**

**Company Name:** Community Hospital East  
**Address City IN Zip:** 1500 North Ritter Avenue  
**CP:** 097-16583-00229  
**Pit ID:** 097-00229  
**Reviewer:** ERG/MP  
**Date:** 10/14/2002

Limited Throughput      S = Weight % Sulfur  
kgals/year                      0.5

2514.9

Emission Factor in lb/kgal	Pollutant				
	PM*	SO2	NO <sub>x</sub>	VOC	CO
	2.0	71 (142.0 S)	20.0	0.34	5.0
Potential Emission in tons/yr	2.5	89.3	25.1	0.4	6.3

\*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.

**Methodology**

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Limited Throughput based on permit conditions.

Emission Factors are from AP-42, Tables 1.3-1, 1.3-2, and 1.3-3 ( SCC 1-03-005-01/02/03) Supplement E 9/98 (see errata file)

Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).